

REMARKS

In the final Office action, claim 1 was rejected as being obvious over Haba in view of Mauritz, Hsuan, and Kim. Claim 1 was also rejected as being anticipated by Mauritz.

Amended claim 1 calls for a processor, a volatile memory, a cross-point memory, a substrate including a bus, the processor, volatile memory, and cross-point memory in a vertical stack over the substrate, and a distinct electrical connection from each of the processor, volatile memory, and cross-point memory to the substrate, the processor, the memories, and the substrate encapsulated within a single package. It is respectfully submitted that the device of claim 1 is not disclosed or suggested by Mauritz alone or in combination with the cited references.

First, Mauritz fails to specifically disclose a distinct electrical connection from each of a processor, a volatile memory, and a cross-point memory to a substrate. *See, e.g.*, Figures 1 and 2. Also, Mauritz does not expressly disclose a processor, a volatile memory, a cross-point memory, and a substrate encapsulated in a single package. *Id.* Thus, for at least these reasons Mauritz does not anticipate amended claim 1.

Second, none of Haba, Hsuan, or Kim cures the deficiencies of Mauritz. For example, Haba too fails to disclose a distinct electrical connection from each of a processor, a volatile memory, and a cross-point memory to a substrate. Instead, Haba connects his chips in series with conductors coupling adjacent die. *See, e.g.*, Figure 3A; column 5, lines 25-40. Hsuan and Kim fail to cure the deficiencies of Mauritz and Haba. *See, e.g.*, Figures 3 and 7 respectively. Thus, for these additional reasons, claim 1 and claims dependent thereon are believed to be patentable over the combination of the cited references.

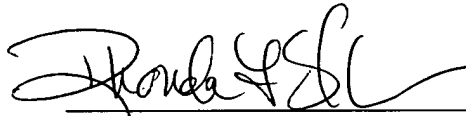
Under a similar analysis, independent claims 10 and 18 and claims dependent thereon are also believed to be patentable over Mauritz alone or in combination with Haba, Hsuan, and Kim.

In view of the amendments and remarks herein the application is believed to be in condition for allowance. The examiner's prompt action in accordance therewith is respectfully requested.

The commissioner is authorized to charge any additional fees, including extension of time fees, or credit any overpayment with respect to this submission to deposit account 20-1504 (ITL.0696US).

Respectfully submitted,

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